INDEX OF AUTHORS AND PAPERS

PHYSICA B

AMBERGER, H.-D., see BONGERS, E. 115B (1982) 72

BABIKER, M., Interaction of charges with metallic surfaces-invalidity of the surface plasmon model 115B (1983) 339
BANNINK, G., BROCKEN, M.G M., VAN ANDEL, I. and VAN BEELEN, H., The crucial role of the vapour for the speed and attenuation of isothermal third sound in unsaturated helium films 115B (1983) 376
BARTOLOMÉ, J., BURRIEL, R., PALACIO, F., GONZALEZ, D., NAVARRO, R., ROJO, J.A. and DE JONGH, L.J., Magnetic properties of the weak ferromagnet NH_4MnFD_3 115B (1983) 190
BERTHEL, K.H., see HEINEMANN, S. 115B (1983) 395
BONGERS, E., BROM, H.B., VEENENDAAL, E.J., HUISKAMP, W.J. and AMBERGER, H.-D., Quadrupolar ordering in a Γ_3-doublet system studied by ^{165}Ho nuclear magnetic resonance: $Cs_2NaHoCl_6$ (*Letter to the Editor*) 115B (1982) 72
BOOM, R., DE BOER, F.R., NIESSEN, A.K. and MIEDEMA, A.R., Enthalpies of formation of liquid and solid binary alloys based on 3d metals. III. Alloys of iron 115B (1983) 285
BROCKEN, M.G.M., see BANNINK, G. 115B (1983) 376
BROM, H.B., see BONGERS, E. 115B (1982) 72
BURRIEL, R., see BARTOLOMÉ, J. 115B (1983) 190
BUSCHOW, K.H.J., see GREIDANUS, F.J.A.M. 115B (1983) 137

CAPEL, H.W., see MULDER, C.A.M. 115B (1983) 310
CARLIN, R.L., see GROENENDIJK, H.A. 115B (1982) 63
CHAUDHURI, A.K., see SANTHANAM, S. 115B (1983) 156
COFTA, H. see TUSZYNSKI, J.A. 115B (1983) 161

DE BOER, F.R., see BOOM, R. 115B (1983) 285
DE JONGH, L.J., see BARTOLOMÉ, J. 115B (1983) 190
DE JONGH, L.J., see GREIDANUS, F.J.A.M. 115B (1983) 137
DHARMADURAI, G., Influence of surface characteristics of solids on the Kapitza resistance 115B (1983) 229

EHRENFREUND, E. and RON, A., Electron spin susceptibility of anisotropic metals in the diffusion regime 115B (1982) 27

FINK-FINOWICKI, J., The influence of crystal symmetry on magneto-optical effects in orthoferrites 115B (1983) 225
FRISCH, B., see HEINEMANN, S. 115B (1983) 395
FUCHIKAMI, N., A model calculation of superexchange interaction and comparison among different methods 115B (1983) 219

FURRER, A., see GREIDANUS, F.J.A.M. 115B (1983) 137

GASANLY, N.M., RAGIMOV, A.S., GONCHAROV, A.F., MELNIK, N.N. and VINOGRADOV, E.A., Special features of vibrational properties of mixed crystals with TlSe structure 115B (1983) 381
GEERKEN, B.M. and NIEUWENHUYS, G.J., Thermal expansion of (giant moment) PdMn and (RKKY) PdHMn spin glasses 115B (1982) 5
GONCHAROV, A.F., see GASANLY, N.M. 115B (1983) 381
GONZALEZ, D., see BARTOLOMÉ, J. 115B (1983) 190
GREIDANUS, F.J.A.M., DE JONGH, L.J., HUISKAMP, W.J., FURRER, A. and BUSCHOW, K.H.J., Crystal field splittings of PrX_2 compounds (X = Pt, Rh, Ir, Ru, Ni) studied by inelastic neutron scattering 115B (1983) 137
GROENENDIJK, H.A. and VAN DUYNEVELDT, A.J., Magnetic properties of the quasi 1d Ising ferromagnet $Co[(CH_3)_3NH]Cl_3 \cdot 2H_2O$ 115B (1982) 41
GROENENDIJK, H.A., VAN DUYNEVELDT, A.J. and CARLIN, R.L., Magnetic properties of $Co[(CH_3)_3ND]Cl_3 \cdot 2D_2O$ 115B (1982) 63

HAGIHARA, T., see HAYASHIUCHI, Y. 115B (1982) 67
HAYASHIUCHI, Y., HAGIHARA, T. and OKADA, T., A new interpretation of proportionality between vacancy formation energy and melting point 115B (1982) 67
HEINEMANN, S., SCHMIDT, W.D., FRISCH, B. and BERTHEL, K.H., On the stationary behaviour of the critical current depending on the magnetic flux in thin film double SQUIDS 115B (1983) 395
HUISKAMP, W.J., see BONGERS, E. 115B (1982) 72
HUISKAMP, W.J., see GREIDANUS, F.J.A.M. 115B (1983) 137

ITOH, M., Perturbation theory of structure factors on fluids away from their triple points 115B (1983) 240

JOHNSON, T. and OLSSON, L.G., The molecular dynamics in highly compressed methane gas studied by slow neutron scattering experiments 115B (1982) 15

LLEBOT, J.E. and RUBÍ, J.M., A generalised Langevin equation for $1/f$ noise 115B (1982) 10

MELNIK, N.N., see GASANLY, N.M. 115B (1983) 381
MIEDEMA, A.R., see BOOM, R. 115B (1983) 285
MORISHITA, I., see YAMADA, I. 115B (1983) 179
MULDER, C.A.M. and CAPEL, H.W., The Heisenberg model: dynamical interactions including odd-boson terms 115B (1983) 310

NAVARRO, R., see BARTOLOMÉ, J. 115B (1983) 190
NEUBERGER, J. and ROY, C.L., Wave functions for surface states of a distorted surface 115B (1983) 172
NIESSEN, A.K., see BOOM, R. 115B (1983) 285
NIEUWENHUYS, G.J., see GEERKEN, B.M. 115B (1982) 5

O'CONNELL, R.F. and WALLACE, G., Transmission of electromagnetic radiation through an electron inversion layer of finite thickness in a metal-oxide-semiconductor (MOS) structure 115B (1982) 1

OKADA, T., see HAYASHIUCHI, Y. 115B (1982) 67
OLSSON, L. G., see JOHNSON, T. 115B (1982) 15

PALACIO, F., see BARTOLOMÉ, J. 115B (1983) 190
PUSZKARSKI, H., Effect of surface parameter on interband surface mode frequencies of finite diatomic chain 115B (1983) 367

RAGIMOV, A.S., see GASANLY, N.M. 115B (1983) 381
RAI, R., Variational approach to the Jahn–Teller problem in cobaltocene 115B (1983) 247
RALPH, J.E. and SCHOFIELD, J.M.S., $1/f$ noise in positive temperature coefficient thermistors 115B (1982) 35
ROJO, J.A., see BARTOLOMÉ, J. 115B (1983) 190
RON, A., see EHRENFREUND, E. 115B (1982) 27
ROY, C.L., see NEUBERGER, J. 115B (1983) 172
RUBÍ, J.M., see LLEBOT, J.E. 115B (1982) 10

SANTHANAM, S. and CHAUDHURI, A.K., Electrical properties of SnTe epitaxial films on mica substrate 115B (1983) 156
SCHMIDT, W.D., see HEINEMANN, S. 115B (1983) 395
SCHOFIELD, J.M.S., see RALPH, J.E. 115B (1982) 35

TOKUYAMA, T., see YAMADA, I. 115B (1983) 179
TSURU, K. and URYÛ, N., The spin-wave theory of the susceptibility of Heisenberg antiferromagnetics: application to a quadratic layer antiferromagnet K_2MnF_4 and comparison with $(C_2H_5NH_3)_2\ CuCl_4$ 115B 61983) 205
TUSZYNSKI, J.A. and COFTA, H., On the magnetostrictive phenomena in metamagnetism 115B (1983) 161

URYÛ, N., see TSURU, K. 115B (1983) 205

VAN ANDEL, I., see BANNINK, G. 115B (1983) 376
VAN BEELEN, H., see BANNINK, G. 115B (1983) 376
VAN DUYNEVELDT, A.J., see GROENENDIJK, H.A. 115B (1982) 41
VAN DUYNEVELDT, A.J., see GROENENDIJK, H.A. 115B (1982) 63
VEENENDAAL, E.J., see BONGERS, E. 115B (1982) 72
VINOGRADOV, E.A., see GASANLY, N.M. 115B (1983) 381

WALLACE, G., see O'CONNELL, R.F. 115B (1982) 1

YADAV, R.B., Phonon spectrum and Debye–Waller factors of niobium carbide (NbC) 115B (1983) 233
YADAV, R.B., The Mössbauer effect of ^{57}Fe nuclei in magnesium, yttrium and beryllium matrices 115B (1983) 237
YAMADA, I., MORISHITA, I. and TOKUYAMA, T., EPR experiments on the two-dimensional Heisenberg ferromagnet K_2CuF_4 115B (1983) 179

PHYSICA C

AKKERMANS, J.M., Free-boundary tokamak equilibria 115C (1982) 103
ALEJALDRE, C., see FUJIMOTO, Y. 115C (1983) 271

ARISAWA, T., MARUYAMA, Y., SUZUKI, Y. and SHIBA, K., Multiple photoionization of isotopic atoms 115C (1983) 266

BIELSKI, A., BOBKOWSKI, R., DYGDAŁA, R. and WAWRZYNSKI, J., Low pressure shift of the $2p^53p$–$2p^55s$ spectral lines of neon perturbed by neon and helium 115C (1983) 261
BOBKOWSKI, R., see BIELSKI, A. 115C (1983) 261
BORKOWSKA-BURNECKA, J. and ZYRNICKI, W., High-resolution study of InCl spectra 115C (1983) 415

DEMBCZYŃSKI, J. and RUDNICKA-SZUBA, H., New metastable levels in the first spectrum of vanadium 115C (1982) 101
DYGDAŁA, R., see BIELSKI, A. 115C (1983) 261
DZIURDA, W., GABLA, L. and TULETA, M., The excitation of energetic atomic particles penetrating amorphous condensed matter 115C (1983) 419

FUJIMOTO, Y., MISHKIN, E.A. and ALEJALDRE, C., Strong shock implosion approximate solution 115C (1983) 271

GABLA, Ł., see DZIURDA, W. 115C (1983) 419

HRIBAR, M., KODRE, A. and PAHOR, J., A study of the M-shell fluorescence yields of lead 115C (1982) 132

IIJIMA, T., Noise measurement in a He–Zn hollow cathode laser tube 115C (1983) 257

KODRE, A., see HRIBAR, M. 115C (1982) 132

MARUYAMA, Y., see ARISAWA, T. 115C (1983) 266
MAVROYANNIS, C. and WOLOSCHUK, K.J., Nonlinear effects. Three-photon process at high photon densities 115C (1982) 77
MISHKIN, E.A., see FUJIMOTO, Y. 115C (1983) 271

PAHOR, J., see HRIBAR, M. 115C (1982) 132

RANGANATHAIAH, C. and SANJEEVAIAH, B., Direct measurement of K-shell photoionization cross sections by means of the coincidence method 115C (1983) 411
RUDNIECKA-SZUBA, H., see DEMBCZYŃSKI, J. 115C (1982) 101

SANJEEVAIAH, B., see RANGANATHAIAH, C. 115C (1983) 411
SHIBA, K., see ARISAWA, T. 115C (1983) 266
SUZUKI, Y., see ARISAWA, T. 115C (1983) 266

TULETA, M., see DZIURDA, W. 115C (1983) 419

WAWRZYNSKI, J., see BIELSKI, A. 115C (1983) 261
WOLOSCHUK, K.J., see MAVROYANNIS, C. 115C (1982) 77

ZYRNICKI, W., see BORKOWSKA-BURNECKA, J. 115C (1983) 415

ANALYTIC SUBJECT INDEX

PHYSICA B

Alloys of iron (see *Fe alloys*) 115B (1983) 285
Anisotropic metals
- Electron spin susceptibility of — in the diffusion regime - Ehrenfreund and Ron 115B (1982) 27
Anti-ferromagnetic systems (see *Heisenberg model*) 115B (1983) 310

Be (see *Mössbauer effect*) 115B (1983) 237
Binary alloys
- Enthalpies of formation of liquid and solid — based on 3d metals. III. Alloys of iron - Boom et al. 115B (1983) 285

Carrier concentration (see *SnTe*) 115B (1983) 156
Cobaltocene
- Variation approach to the Jahn–Teller problem in — - Rai 115B (1983) 247
Conductivity (see *SnTe*) 115B (1983) 156
Co $[(CH_3)_3ND]Cl_3 \cdot 2D_2O$
- Magnetic properties of the quasi 1d Ising ferromagnet — - Groenendijk and Van Duyneveldt 115B (1982) 63
- Magnetic properties of the quasi 1d Ising ferromagnet - Groenendijk and Van Duyneveldt 115B (1982) 41
Crystal field splittings
- — of PrX_2 compounds (X = Pt, Rh, Ir, Ru, Ni) studied by inelastic neutron scattering - Greidanus et al. 115B (1983) 137
$Cs_2NaHoCl_6$
- Quadrupolar ordering in a Γ_3-doublet system studied by ^{165}Ho nuclear magnetic resonance — - Bongers et al. (*Letter to the Editor*) 115B (1982) 72
Cu–liquid He interface (see *Kapitza resistance*) 115B (1983) 229

Debye–Waller factors (see *NbC*) 115B (1983) 233
Diatomic chain
- Effect of surface parameter on interband surface mode frequencies of finite — - Puszkarski 115B (1983) 367
Distorted surface
- Wave functions for surface states of a — - Neuberger and Roy 115B (1983) 172

Electromagnetic radiation transmission
- Transmission of electromagnetic radiation through an electron inversion layer of finite thickness in a metal-oxide-semiconductor (MOS) structure - O'Connell and Wallace 115B (1982) 1
Enthalpies of formation (see *Binary alloys*) 115B (1983) 285
Epitaxial films (see *SnTe*) 115B (1983) 156

Faraday effect (see *Magnetooptical effects*) 115B (1983) 225
Fe alloys
- Enthalpies of formation of liquid and solid binary alloys based on 3d metals. III. Alloys of iron - Boom et al. 115B (1983) 285
Ferromagnetic systems (see *Heisenberg model*) 115B (1983) 310
Fluids
- Perturbation theory of structure factors of — away from their triple points - Itoh 115B (1983) 240
1/f noise
- A generalized Langevin equation for — - Llebot and Rubí 115B (1982) 10
- — in the positive temperature coefficient thermistors - Ralph and Schofield 115B (1982) 35

Grüneisen parameter (see *PdMn spin glass*) 115B (1982) 5

Heat capacity (see NH_4MnF_3) 115B (1983) 190
He films
- The crucial role of the vapour for the speed and attenuation of isothermal third sound in unsaturated — - Bannink et al. 115B (1983) 376
Heisenberg antiferromagnets
- The spin-wave theory of the susceptibility of — : application to a quadratic layer antiferromagnet K_2MnF_4 and comparison with $(C_2H_5NH_3)_2CuCl_4$ - Tsuru and Uryû 115B (1983) 205
Heisenberg ferromagnet
- EPR experiments on the two-dimensional — K_2CuF_4 - Yamada et al. 115B (1983) 179
Heisenberg model
- The — : dynamical interactions including odd-boson terms - Mulder and Capel 115B (1983) 310
^{165}*Holmium*
- Quadrupolar ordering in a Γ_3-doublet system studied by — nuclear magnetic resonance: $Cs_2NaHoCl_6$ - Bongers et al. (*Letter to the Editor*) 115B (1982) 72

IR spectra (see *TlSe structure, mixed crystals*) 115B (1983) 381
Ising ferromagnet
- Magnetic properties of the quasi 1d — $Co[(CH_3)_3NH]Cl_3 \cdot 2H_2O$) - Groenendijk and Van Duyneveldt 115B (1982) 41

Jahn–Teller problem
- Variational approach to the — in cobaltocene - Rai 115B (1983) 247

K_2CuF_4 (see *Heisenberg ferromagnet*) 115B (1983) 179
K_2MnF_4
- The spin-wave theory of the susceptibility of Heisenberg antiferromagnetics: application to a quadratic layer antiferromagnet — and comparison with $(C_2H_5NH_3)_2CuCl_4$ - Tsuru and Uryû 115B (1983) 205
Kapitza resistance
- Influence of surface characteristics of solids on the — - Dharmadurgai 115B (1983) 229

Magnetic interaction
- A model calculation of superexchange interaction and comparison among different methods - Fuchikami 115B (1983) 219

Magnetic properties (see NH_4MnF_3) 115B (1983) 190
Magnetic susceptibility
- Magnetic properties of $Co[(CH_3)_3ND]Cl_3 \cdot 2D_2O$ - Groenendijk et al. 115B (1982) 63
Magnetic susceptibility (see $Co[(CH_3)_3NH]Cl_3 \cdot 2H_2O$) 115B (1982) 41
Magnetic susceptibility (see K_2MnF_4) 115B (1983) 205
Magnetooptical effects
- The influence of crystal symmetry on — in orthoferrites - Fink-Finowicki 115B (1983) 225
Magnetostrictive phenomena (see *Metamagnetism*) 115B (1983) 161
Metallic surfaces (see *Surface plasmon model*) 115B (1983) 339
Metals, pure
- A new interpretation of proportionality between vacancy formation energy and melting point - Hayashiuchi 115B (1982) 67
Metamagnetism
- On the magnetostrictive phenomena in — - Tuszynski and Cofta 115B (1983) 161
Methane
- The molecular dynamics in highly compressed — gas studied by slow neutron scattering experiments - Johnson and Olsson 115B (1982) 15
Mg (see *Mössbauer effect*) 115B (1983) 237
Mixed crystals (see *TlSe structure, mixed crystals*) 115B (1983) 381
Mn_3GaC (see *Metamagnetism*) 115B (1983) 161
Mobility (see *SnTe*) 115B (1983) 156
Molecular dynamics (see *Methane*) 115B (1982) 15
MOS structure
- Transmission of electromagnetic radiation through an electron inversion layer of finite thickness in a — structure - O'Connell and Wallace 115B (1982) 1
Mössbauer effect
- The — on ^{57}Fe nuclei in magnesium, yttrium and beryllium matrices - Yadav 115B (1983) 237

NbC
- Phonon spectrum and Debye–Waller factors of niobium carbide (—) - Yadav 115B (1983) 233
Neutron scattering (see *Methane*) 115B (1982) 15
NH_4MnF_3
- Magnetic properties of the weak ferromagnet — - Bartolomé et al. 115B (1983) 190

One-dimensional ferromagnet (see $Co[(CH_3ND]Cl_3 \cdot 2D_2O$) 115B (1982) 63
One-dimensional Ising ferromagnet (see $Co[(CH_3)_3NH]\ Cl_3 \cdot 2H_2O$) 115B (1982) 41
Orthoferrites
- The influence of crystal symmetry on magnetooptical effect in — - Fink-Finowicki 115B (1983) 225

PdHMn spin glass
- Thermal expansion of (giant moment) PdMn and (RKKY) — - Geerken and Nieuwenhuys 115B (1982) 5
PdMn spin glass
- Thermal expansion of (giant moment) — and (RKKY) PdHMn spin glasses - Geerken and Nieuwenhuys 115B (1982) 5
Phonon spectra (see *TlSe structure, mixed crystals*) 115B (1983) 381
Phonon spectrum (see *NbC*) 115B (1983) 233

PrX_2 compounds
- Crystal field splittings of — (X = Pt, Rh, Ir, Ru, Ni) studied by inelastic neutron scattering - Greidanus et al. 115B (1983) 137

Quadrupolar ordering (see *$Cs_2NaHoCl_6$*) 115B (1982) 72

Raman scattering spectra (see *TlSe structure, mixed crystals*) 115B (1983) 381

SnTe
- Electrical properties of — epitaxial films on mica substrate - Santhanam and Chaudhuri 115B (1983) 156

Spin glasses (see *PdMn spin glass*) 115B (1982) 5

Spin susceptibility
- Electron — of anisotropic metals in the diffusion regime - Ehrenfreund and Ron 115B (1982) 27

Spin-wave theory (see *Heisenberg model*) 115B (1983) 310

SQUIDS
- On the stationary behaviour of the critical current depending on the magnetic flux in thin film double — - Heinemann et al. 115B (1983) 395

Structure factors (see *Fluids*) 115B (1983) 240

Superexchange interaction
- A model calculation of — and comparison among different methods - Fuchikami 115B (1983) 219

Surface characteristics (see *Kapitza resistance*) 115B (1983) 229

Surface parameter
- Effect of — on interband surface mode frequencies of finite diatomic chain - Puszkarski 115B (1983) 367

Surface plasmon model
- Interaction of charges with metallic surfaces – invalidity of the — - Babiker 115B (1983) 339

Surface states
- Wave functions for — of a distorted surface - Neuberger and Roy 115B (1983) 172

Thermal expansion (see *PdMn spin glass*) 115B (1982) 5

Thermistors
- $1/f$ noise in the positive temperature coefficient — - Ralph and Schofield 115B (1982) 35

Third sound
- The crucial role of the vapour for the speed and attenuation of isothermal — in unsaturated helium films - Bannink et al. 115B (1983) 376

TlSe structure, mixed crystals
- Special features of vibrational properties of mixed crystals with TlSe structure - Gasanly et al. 115B (1983) 381

Two-dimensional antiferromagnet (see *K_2MnF_4*) 115B (1983) 205

Two-dimensional Heisenberg ferromagnet
- EPR experiments on the — K_2CuF_4 - Yamada et al. 115B (1983) 179

Vacancy formation
- A new interpretation of proportionality between — energy and melting point - Hayashiuchi et al. 115B (1982) 67

Van Vleck parameters (see $Cs_2NaHoCl_6$) 115B (1982) 72
Van Vleck parameters (see PrX_2 *compounds*) 115B (1983) 137

Y (see *Mössbauer effect*) 115B (1983) 237

PHYSICA C

Atomic spectra (see *Neon*) 115C (1983) 261
Atomic spectra (see *Vanadium*) 115C (1982) 101
Au (see *Photoionization cross section*) 115C (1983) 411

Excitation of atomic particles
- The excitation of energetic atomic particles penetrating amorphous condensed matter - Dziurda et al. 115C (1983) 419

Fluorescence yields (see *Lead*) 115C (1982) 132

He–Zn hollow cathode laser tube
- Noise measurement in a — - Iijima 115C (1983) 257

InCl spectra
- High-resolution study of — - Borkowska-Burnecka and Zyrnicki 115C (1983) 415

Laser power (see *He–Zn hollow cathode laser tube*) 115C (1983) 257
Lead
- A study of the M-shell fluorescence yields of — - Hribar et al. 115C (1982) 132
Molecular spectra (see *InCl spectra*) 115C (1983) 415
Multiple photoionization
- — of isotope atoms - Arisawa et al. 115C (1983) 266

Na atoms (see *Excitation of atomic particles*) 115C (1983) 419
Neon
- Low pressure shift of the $2p^53p$–$2p^55s$ spectral lines of — - Bielski et al. 115C (1983) 261
Neon–helium mixture
- Low pressure shift of the $2p^53p$–$2p^55s$ spectral lines of neon - Bielski et al. 115C (1983) 261
Noise spectra (see *He–Zn hollow cathode laser tube*) 115C (1983) 257
Non-linear optical effects (see *Three photon processes*) 115C (1982) 77

Pb (see *Photoionization cross section*) 115C (1983) 441
Photoionization
- Multiple — of isotopic atoms - Arisawa et al. 115C (1983) 266
Photoionization cross section
- Direct measurement of K-shell — by means of the coincidence method - Ranganathaian and Sanjeevaiah 115C (1983) 411
Plasmas (see *Tokamak equilibria*) 115C (1982) 103
Power broadening (see *Multiple photoionization*) 115C (1983) 266

Rotational spectra (see *InCl spectra*) 115C (1983) 415

Shock implosion
- Strong —, approximate solution - Fujimoto et al. 115C (1983) 271
Sn (see *Photoionization cross section*) 115C (1983) 411
Sputtered Na atoms

- The excitation of energetic atomic particles penetrating amorphous condensed matter - Dziurda et al. 115C (1983) 419

Th (see *Photoionization cross section*) 115C (1983) 441
Three-photon processes
- Nonlinear effects. — at high photon densities - Mavroyannis and Woloschuk 115C (1982) 77
Tokamak equilibria
- Free-boundary — - Akkermans 115C (1982) 103

Vanadium
- New metastable levels in the first spectrum of — - Dembczynski and Rudnicka-Szuba 115C (1982) 101